

## M SERIES SPEAKER SYSTEM

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### ■ CAUTION


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#### **Read the following before using these speakers:**

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install the speakers in a cool, dry, clean place away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electric shock, do not expose the speakers to dripping or splashing.
- To prevent the enclosure from warping or discoloring, do not place the speakers where they will be exposed to direct sunlight or excessive humidity.
- Do not place the following objects on top of the speakers:
  1. Glass, china, etc.

Vibration may cause these object to fall and break.
  2. A burning candle etc.

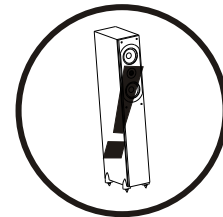
If the candle falls by vibrations, it may cause fire and personal injury.
  3. A vessel with water in it

If the vessel falls by vibrations and water spills, it may cause damage to the unit, and/or you may get an electric shock.
- Do not place the speakers where foreign objects such as water drips might fall. It might cause a fire, damage to this unit, and/or personal injury.
- Do not place the speakers where they are liable to be knocked over or struck by falling objects. Stable placement will also ensure better sound performance.
- Secure placement or installation is the owner's responsibility.  shall not be liable for any accident caused by improper placement or installation of speakers.
- Any time you note distortion, reduce the volume of your amplifier immediately. Make sure the input power does not exceed the specified maximum input power, otherwise the speakers will be damaged.

- Do not attempt to clean the speakers with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- To clean subwoofer, unplug the power cord from the outlet first. Use a damp cloth only to wipe dust of the surface. Do not use any liquid cleaners.
- The subwoofer should be placed at a ventilated, dry and cool location, away from any heat sources such as radiators or amplifiers.
- Do not obstruct the subwoofer amplifier from ventilation. It is necessary that air can flow around the finned heat sink on the rear panel of the amplifier.
- Do not use the subwoofer near water or expose them to rain or moisture.
- Always unplug the power cord first when making connections. Switch power on only after you check and make sure all connections are made correctly.
- Unplug the power cord from the outlet when you are not going to use the subwoofer for a long period of time.
- Do not attempt to modify or fix the speakers. Contact qualified  service personnel when any service is needed. The cabinet should never be opened for any reasons.

## ■ PRECAUTIONS WHEN POSITIONING THE SPEAKERS

The speaker is constructed with the majority of the weight located in its upper portion, and is thus susceptible to falling over if proper care is not taken to insure its stability. If the speaker falls over, it may damage the speaker or be the cause of injury (or even death) to persons and/or damage to personal property.

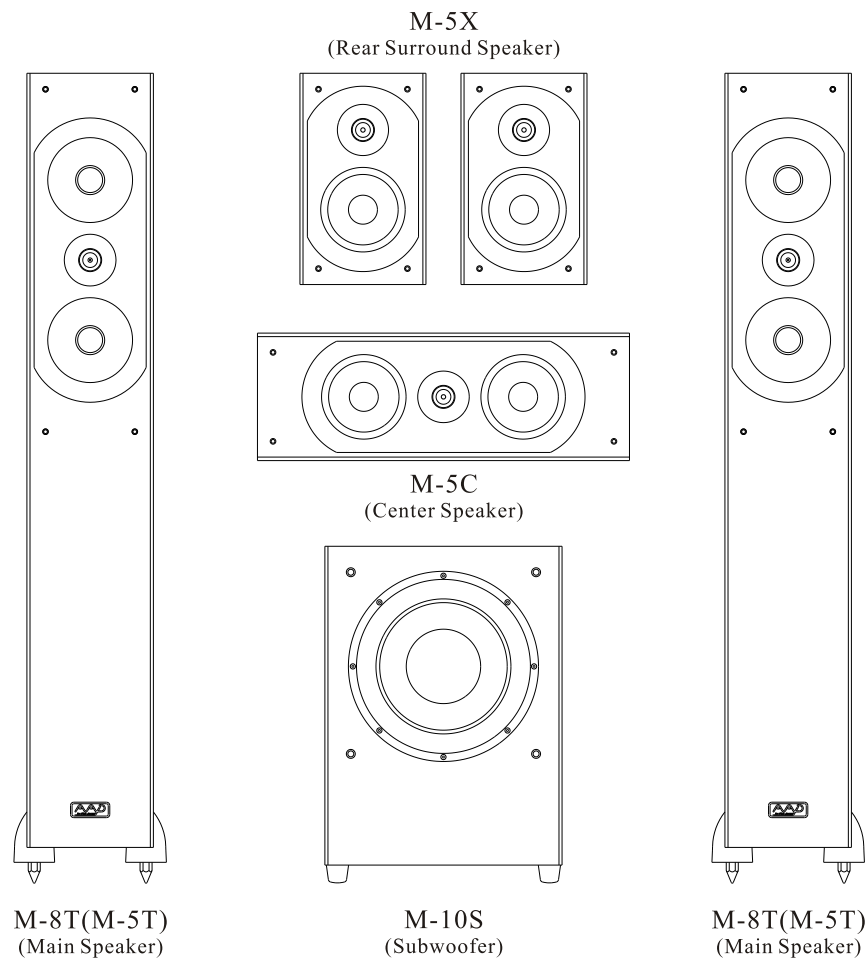


### **For safe and proper use of the speaker:**

- Position the speaker in a location that is solid, level, smooth, and low (with respect to the floor).
- Do not push or apply pressure to the side of the speaker when moving, or lean objects against the side of the speaker.
- Do not sit on or set objects on top of the speaker.

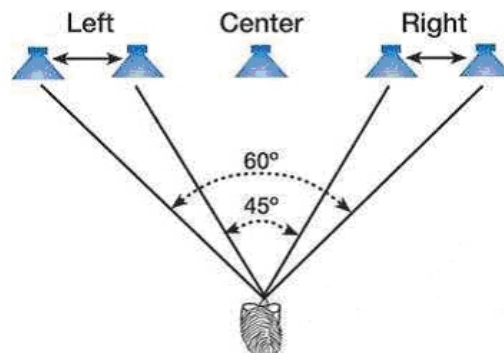
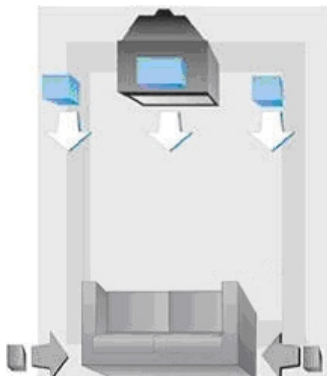
Vibrations or jolts associated with earthquakes and other phenomena or activities may cause the speaker to fall over. For safety reasons, using commercially available products that increase stability in the speaker is recommended (metal fittings or chains, etc.).

## ■ M SERIES HOME THEATER SPEAKER SYSTEM

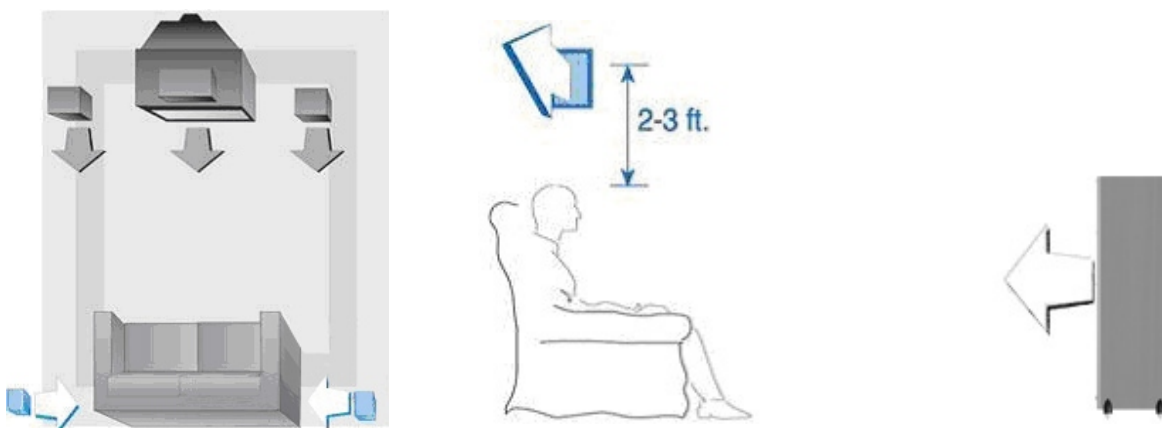


### SPEAKER PLACEMENT

- Main speakers should be placed in front of audience within visual distance, with 45 to 60 degree angle using the audience as center point. If your system is used mainly for movie sound tracks, we recommend the 45 degree placement. If your system is used primarily for music listening, distance of the main speakers can be further apart.



- Center speakers should NOT be placed closer from the audience than the main speakers. Center speaker and main speakers should be kept in a straight line, preferably at the same height.
- In order to reduce the effect from speaker placement and create a wide spread and realistic sound field similar to that in a movie theater and recording studio, hang rear speakers on the walls a little behind the audience and higher than ear level of sitting position. Speaker will face the listening environment; not the audience. Placing the rear surround speakers too much in the front will reduce the background effect; and too much on the back will also affect the surround signal and its integration with the entire system.



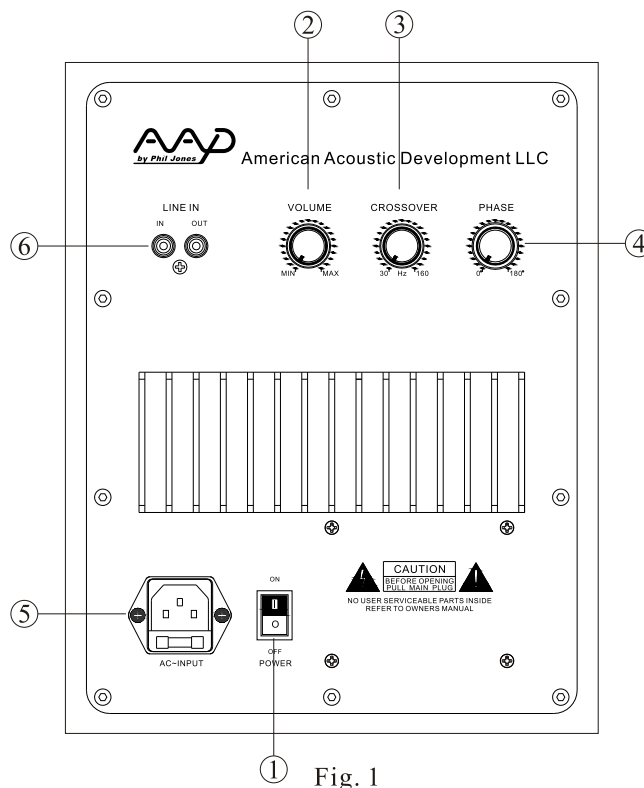
We normally do not recommend placing rear speaker directly behind the audience.

- The subwoofer can be placed virtually anywhere in your room without affecting the stereo image of your main speakers. Placing the unit in a corner of the room will yield the greatest bass output but may not provide the best sound, as this position will cause maximum room mode resonance. You can start with this position and then move the subwoofer to different areas until you find the sound satisfactory. The best method is to try different positions. Keep a clearance of 100mm/4" from the wall or furniture to provide best performance.
- Please bear in mind that your room settings and environment can greatly affect total sound quality. The above only provides some general guidelines. If necessary, please consult a professional installer to achieve best result of your system.
- Large amount of exposed hard surface in the room can cause reflection so that the sound may appear to be harsh or dialogues will appear unclear. If you experience this, try using soft interior objects such as area rugs or curtains to absorb some of the reflective sound waves.

- When choosing a dedicated listening room, try to avoid rooms with equal distance on all four sides, or rooms with length exactly twice as long as width. Geometry as such will increase the echoing effect and increase coloration.
- If possible, place seating in between the two walls where rear speakers are mounted. The closer speakers are to corners of wall, ceiling and floor, the larger volume of bass will be heard. However, sometimes bass can be overloaded.

## ■ M-10S FUNCTIONS

Please refer to Fig.1 for functions on the amplifier.



① Fig. 1

### ① Power Switch on/off

Upper position: power on  
Lower position: power off

### ② Volume Control

Use this control to balance the level of the subwoofer with the level of your main speakers.

③ **Crossover frequency control**

If you are using small loudspeakers (4" to 6" woofers) in your main system, you will need to set the crossover frequency at a high position (100 to 160Hz). If your main speakers have larger woofers (8" and above) you will need to set the crossover frequency to much lower position (40 to 80 Hz). Generally, the larger the speaker, the greater the low frequency output will be. If the frequency control is set too high, the bass will appear "boomy" due to outputs of subwoofer and main speakers overlapping each other. If it is set too low, the bass will be ill defined and the subwoofer will sound detached from the rest of the system.

④ **Phase Control**

Use this control to determine the best possible bass performance of your system. There can be interference between your main speakers and subwoofer at the frequency where they cross over due to placement, room acoustics and type of main speaker used. By carefully positioning the subwoofer in the room in combination with the level and crossover control, you should be able to get a seamless transition between your main speakers and subwoofer. Start with the full anticlockwise 0 degree position. This means that the subwoofer will push out positive pressure wave corresponding to a positive electrical input. The 180 degree full clockwise position inverts this so the subwoofer will put out a negative pressure wave. You can use this position if you are unable to get a good integration between the subwoofer and main speaker.

⑤ **Power input socket and Fuse**

For continued protection, replace only with same type fuse.

⑥ **Line In/ Line Out**

Connect Line in to the subwoofer output of your amplifier/receiver. If you do not have a subwoofer output, you can connect up the subwoofer using the Line In/Out utilizing a tape input/output amplifier/receiver. Connect the tape output to the Line Input on the subwoofer, then connect the tape input to the Line Output on the subwoofer. To switch the subwoofer into the circuit, switch the tape monitor input on your amplifier/receiver.

## ■ HOME THEATER SYSTEM CONNECTION

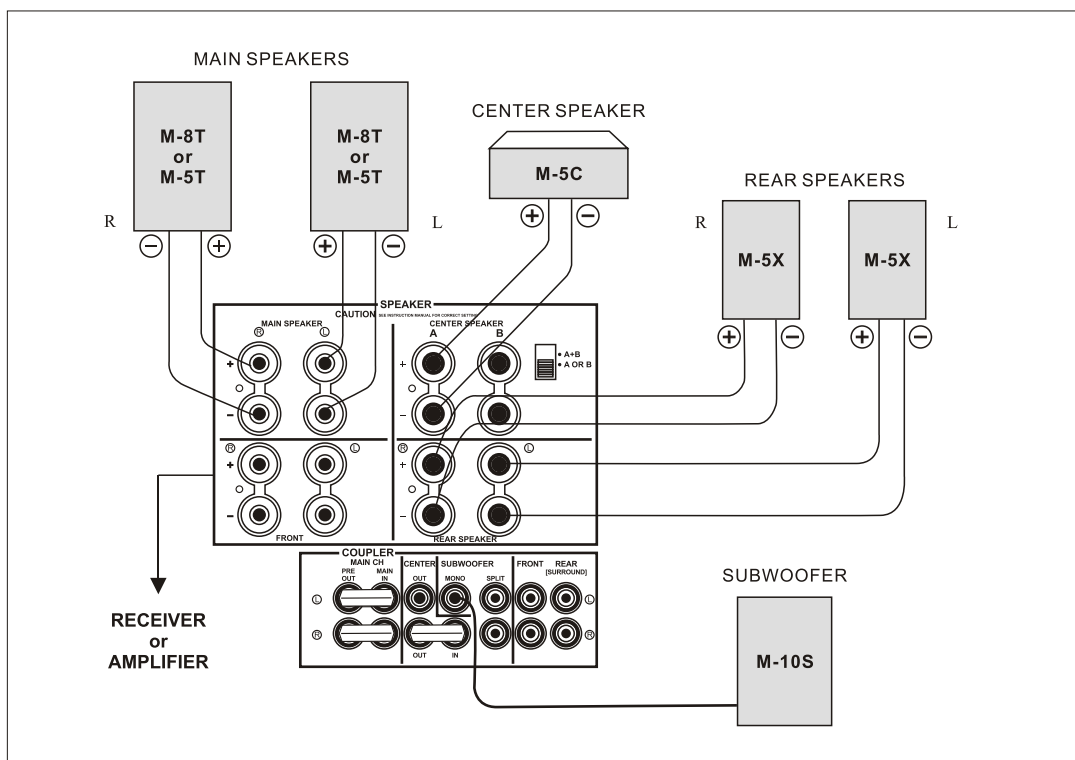


Fig. 2

**Please according to fig. 2 to connect your M series speaker system with your Receiver or Amplifier.**

**Note:** Make sure all power is switched off on all equipment and power cables are removed from wall outlets before making any connections.

Connections are made at the terminals located on the back of the loudspeakers system. Use one pair of cable for each speaker in the system. The red terminal on the loudspeaker should be connected to the red or (+) connection terminal on the receiver or amplifier. The black terminal on the loudspeaker should be connected to the black or (-) connection terminals on the receiver or amplifier. Connecting the loudspeakers in this manner ensures that they will be in phase; that is, work together rather than in opposition.

## ■ WARRANTY & SERVICE

The M series speakers come with warranty period of two years, starting from the date of purchase. This warranty is provided to original owner, and covers defect in materials or workmanship that occurs in normal use. This warranty excludes damage that results from abuse, mis-use, accidents, shipping, or repairs or modifications by anyone other than authorized **AAP** representatives. The warranty is void if serial number has been removed.

Should you need service on your speakers, please bring it to the dealer whom you purchased from along with sales slip.

If this is not possible, call or write to:

**American Acoustic Development LLC**  
**8559 Page Ave, St. Louis,**  
**MO 63114, USA**

**Tel: 314-814-3383**  
**Fax: 636-536-1338**  
**E-mail: info@aadsound.com**  
**www.aadsound.com**

## ■ M SERIES SPEAKER SPECIFICATION

### **Model: M-8T (Main Speaker)**

Drive Units: 1 x Concentric Ring Radiating Tweeter  
2 x 5" Composite Cone Woofer  
1 x 8" Radiator  
Frequency Response: 30Hz-40KHz +/-3dB  
Sensitivity: 89 dB  
Nominal Impedance: 6 Ohms  
Recommended Amplifier Power: 20~180 Watts  
Dimensions(HxWxD): 1038x172x318 (mm)  
40.9x6.8x12.5 (inch)  
Net Weight: 16 Kg (35 Lbs)

### **Model: M-5C (Center Speaker)**

Drive Units: 1 x Concentric Ring Radiating Tweeter  
2 x 5" Composite Cone Woofer  
Frequency Response: 60Hz-40KHz +/-3dB  
Sensitivity: 89 dB  
Nominal Impedance: 6 Ohms  
Recommended Amplifier Power: 20~100 Watts  
Dimensions(HxWxD): 502x172x183 (mm)  
19.8x6.8x7.2 (inch)  
Net Weight: 7 Kg (15.5 Lbs)

### **Model: M-10S (Subwoofer)**

System: Active Subwoofer  
Amplifier Type: Solid state class A/B  
Power: 110 watts RMS  
Driver: 10" composite cone woofer  
Frequency Response: 30Hz-200Hz +/-3dB  
Electronic Crossover: variable 30Hz-160Hz,24dB/octave  
Phase Control: 0° -180° variable  
Inputs/Outputs: RCA low level  
Dimensions(HXWxD): 430X320X350(mm)  
16.9X12.6X13.8(inch)  
Net Weight: 17.5 Kg (38.7 Lbs)

### **Model: M-5T (Main Speaker)**

Drive Units: 1 x Concentric Ring Radiating Tweeter  
2 x 5" Composite Cone Woofer  
Frequency Response: 40Hz-40KHz +/-3dB  
Sensitivity: 90 dB  
Nominal Impedance: 6 Ohms  
Recommended Amplifier Power: 20~150 Watts  
Dimensions(HxWxD): 1038x172x318 (mm)  
40.9x6.8x12.5 (inch)  
Net Weight: 15 Kg (33 Lbs)

### **Model: M-5X (Rear Surround Speaker)**

Drive Units: 1 x Concentric Ring Radiating Tweeter  
1 x 5" Composite Cone Woofer  
Frequency Response: 70Hz-40KHz +/-3dB  
Sensitivity: 88 dB (2.83V,1M)  
Nominal Impedance: 6 Ohms  
Recommended Amplifier Power: 20~80 Watts  
Dimensions(HxWxD): 285x172x173 (mm)  
11.2x6.8x6.8 (inch)  
Net Weight: 4 Kg (9 Lbs)

**Standard Finish: Cherry / Maple**